



American Earth Anchors

The best screw you will have in the dirt™

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PENETRATOR™

The time-tested screw – upscaled

- Soil
- Sand
- Asphalt
- Underwater
- Commercial
- Residential
- Military
- Permanent
- Temporary



Reusable

Twist in, twist out

Strong

Cast aluminum 356 alloy aircraft-quality aluminum heat treated to T6 specification (NO RUST)

Lightweight

*The ALUMINUM advantage:
 Shipping cost, on-site handling*

Alternative to concrete footings

Model PE46 – the “big one” – no digging, forms, pouring, waiting



The PENETRATOR is one of our four anchor designs to handle projects large or small, simple or complex

YOU HAVE IT, WE HOLD IT™



PULLOUT STRENGTH

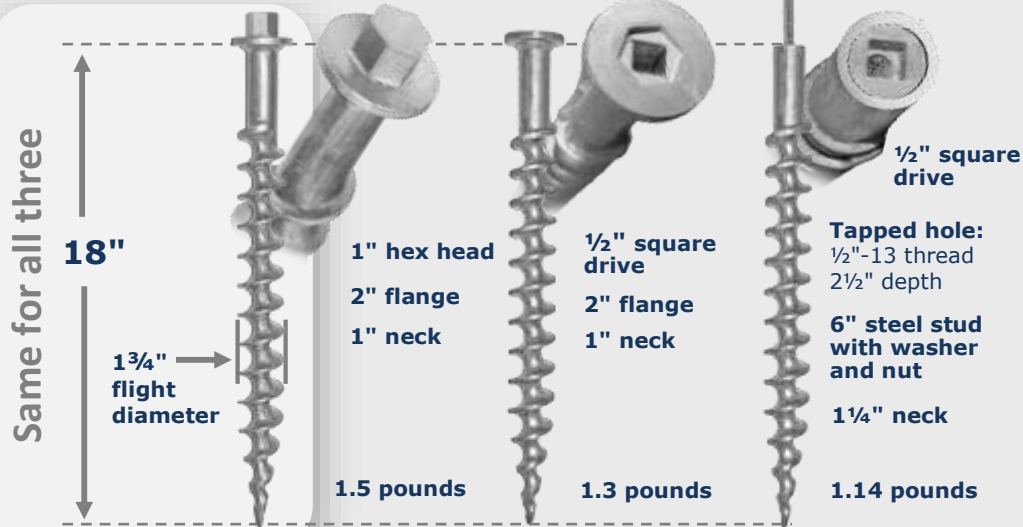
Table on last page



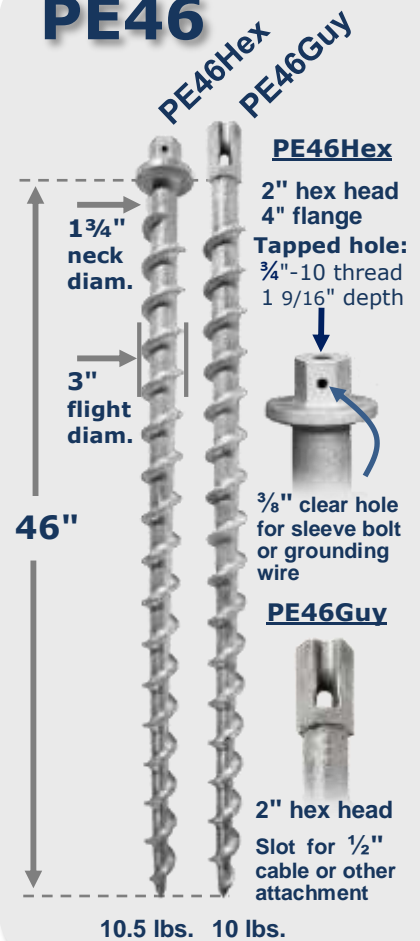
DIMENSIONS AND ANATOMY

- Aircraft-quality cast aluminum 356 alloy
- Heat-treated to T6 specification

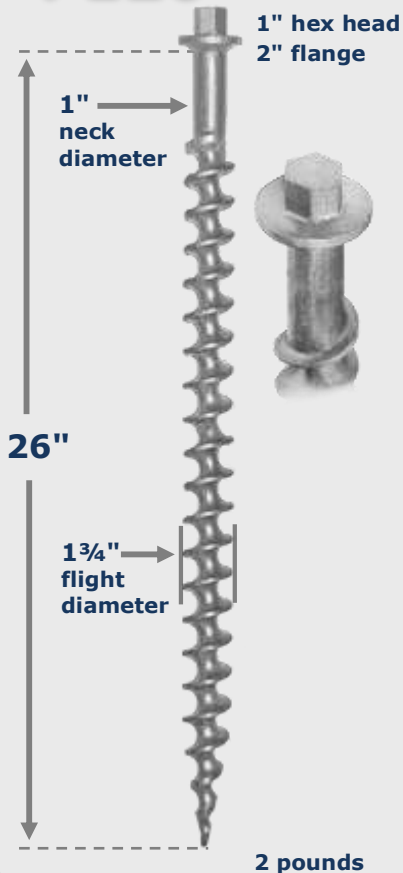
PE18



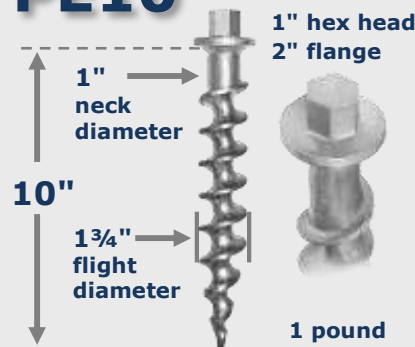
PE46



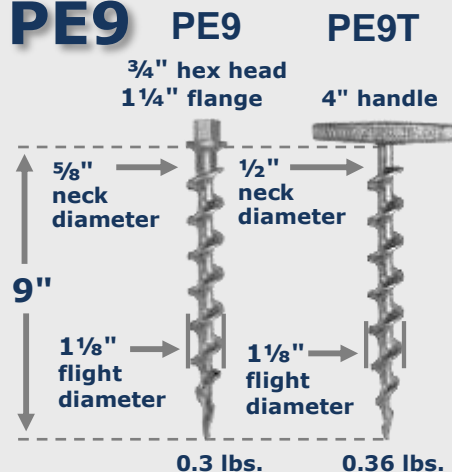
PE26



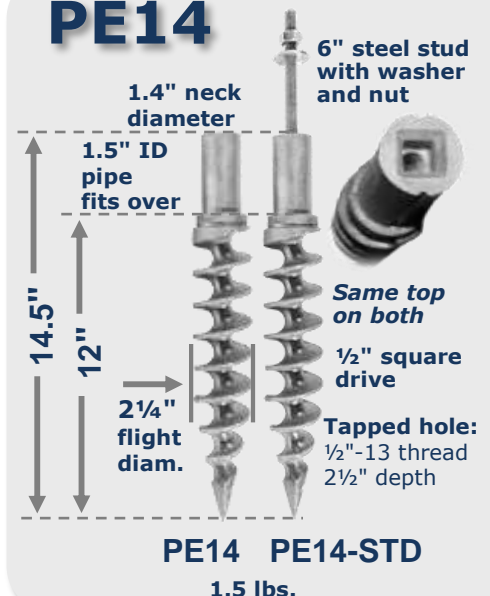
PE10



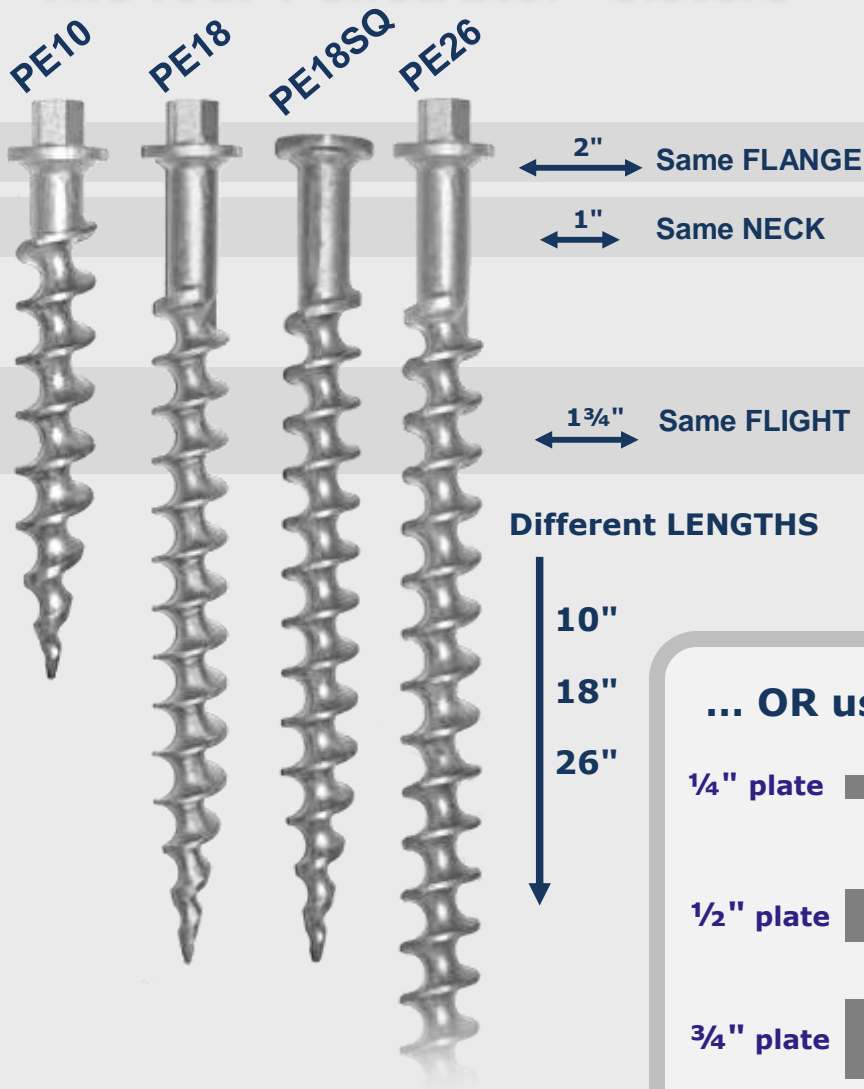
PE9



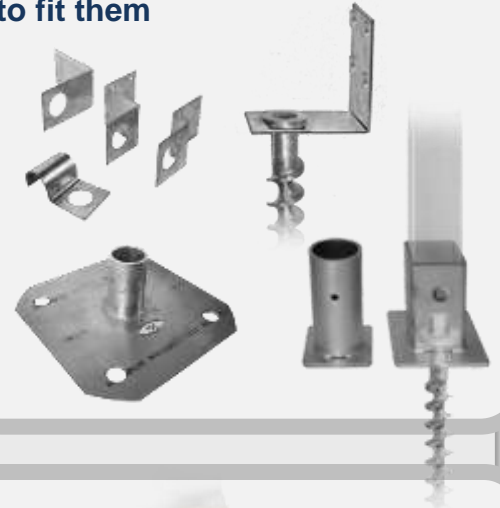
PE14



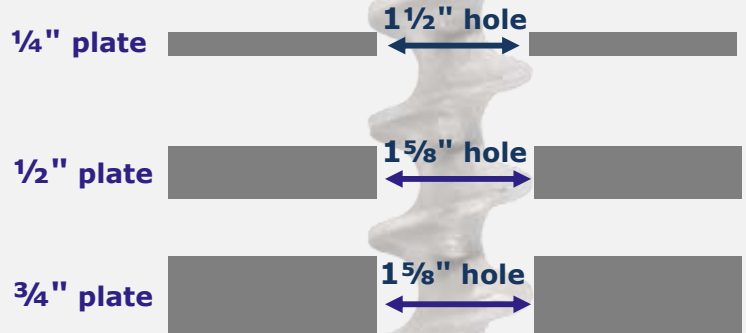
The four Penetrator "sisters"



AEA's BRACKETS, PLATES, and SLEEVES are designed to fit them



... OR use your own:



FLANGE top



Can be used in two ways:

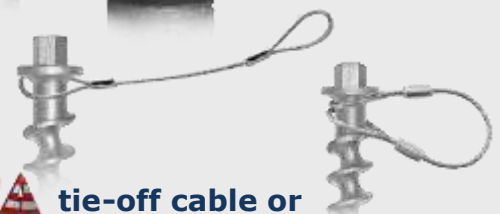
SCREW DOWN

against a plate
or other surface



TIE OFF

using **AEA** tie-off cable or
your own cable, rope, or strap



Installation: EASY

Getting it into the ground



Recommendation

6-point socket (instead of 12-point socket) will minimize wear and rounding of hex head for repeated installation/removal

STANDARD TOOLS

Impact wrench



PE14



PE9



PE46

Even for the "big one" if soil conditions allow and you are tall enough!

Makita TW1000 impact wrench in less than 3 minutes

[Watch the video here](#)

STRENGTH TESTING

Hydraulic proof tester

Up to 15,000 lbs.



ACCESSORIES

T-HANDLE

- Ratcheting or non-ratcheting
- Socket or square drive



PE26

12-VOLT HYDRAULIC INSTALLER for PE46



PE46

... OR DESIGN YOUR OWN METHOD



2" socket with ratchet and long pipe for added leverage

PE46



Gas-powered auger with bit modified for square drive or hex head

PE18SQ



Tractor's power takeoff rigged with 2" socket for PE46

PRE-DRILL in asphalt and hard soils



Drill pilot hole through asphalt – and 10" deep in hard soil – to reduce stress on the anchor (and on the installer!)



PE10, PE18, PE26	PE14	PE46
Pilot hole diameter		
1"	1.5"	2"

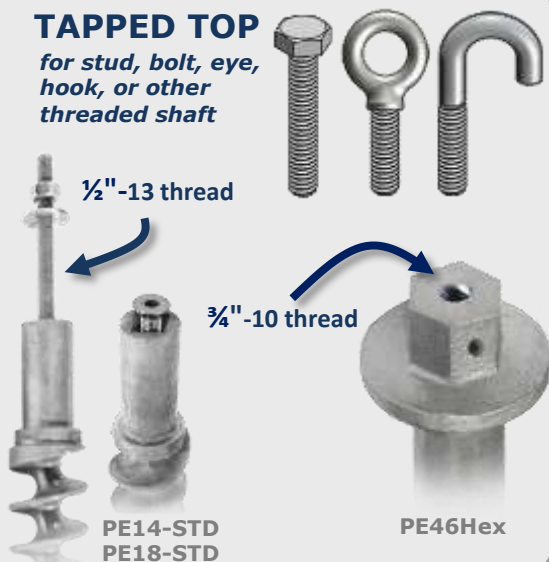


Attachment: YOUR CHOICE

Connecting to your structure

TAPPED TOP

for stud, bolt, eye, hook, or other threaded shaft



FLANGE TOP

- Screw-down against a surface
- Attachment to tie-off cable

PE10
PE18
PE26
PE46Hex



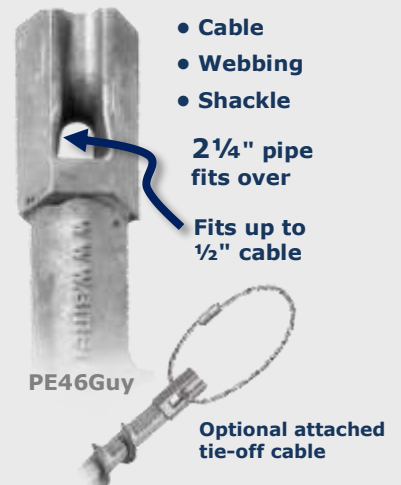
GUYING TOP

for attachment to ...

- Cable
- Webbing
- Shackle

2 1/4" pipe fits over

Fits up to 1/2" cable



PIPE TOP

for pipe or post fitted over the Penetrator's top

Pipe could be...

1.5" ID

1" ID

- Part of the structure being anchored (see fence posts on page 7)
- Installation assist for below-grade depth of tapped-top Penetrator to keep a clear path for the threaded rod (see SONAR station on page 9)

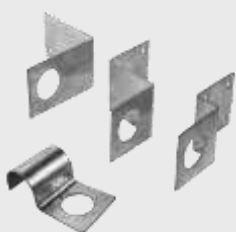


CABLE CLAMPS

to make a loop around a structural member



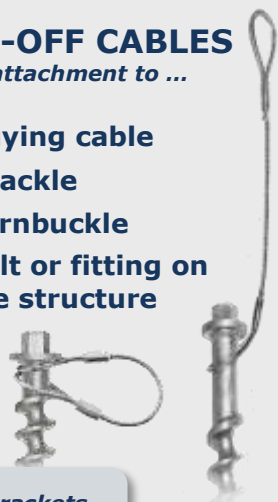
BRACKETS



TIE-OFF CABLES

for attachment to ...

- Guying cable
- Shackle
- Turnbuckle
- Bolt or fitting on the structure



SLEEVES

for stanchion, pipe, post

For 2.5"-3" round post

For 3" square post

Clear hole for 3/8" bolt

Single-hole base with round or square sleeve

PE10
PE18
PE26



Four-hole plate with round sleeve for post



We can make custom brackets and cables to your specification

ALTERNATIVE TO CONCRETE FOOTINGS

Screw shape provides both upward and **DOWNWARD** grip

UPWARD
pullout strength

*Works like
an ANCHOR*



DOWNWARD
support strength

*Works like
a FOOTING*

PE46

The "big one"

- No digging
- No forms
- No pouring
- No waiting



Weight test



*PE46 heads 10" above ground
– no ground surface support
for the weight, only the grip
of the screws in the soil*

Solar array



Easy leveling:
Twist UP, twist DOWN

Walkway cover



**PE46 as footings
for the posts**

SLEEVES/BRACKETS

For stanchion, pipe, post



*We can make custom brackets
to your specification*

U-bracket
for 4"x4" post



Sleeves
Two clear holes
for 3/8" bolts



TAPPED TOP

3/4"-10 thread

To attach your
plate or other fitting



PENETRATORS AT WORK

Horse shelter



PE18 with tie-off cable to a fitting on shelter's leg



Fence posts



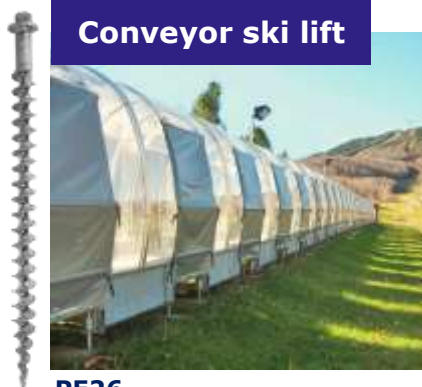
PE14s with fiberglass posts fitted on top
65 miles of electric fence to contain reindeer in Alaska

Winch



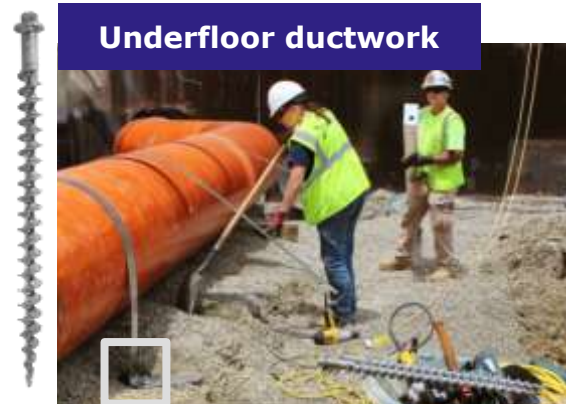
Four PE18s at corners

Conveyor ski lift



PE26

Underfloor ductwork



PE26 installed through strap

Prevents shifting or floating when concrete is poured over the ducts

Cart corral



PE14

Bolt secures PE14 to corral's mounting brackets

(More about asphalt installation on page 10)

Sheds

Trailers

Fences

Gazebos

Mobile homes

Vineyards

Hoop houses

Portable shelters

Mobile offices

Porta-potties



Pool cover tethers



Disaster shelters in Haiti



Floating islands



Walkway lights



Park bench



Guyed frame



Temporary fabric structure in the Nevada desert

Signs
Archery targets
Dog tie-outs
Clear-span structures
Trees
Bike racks
Inflatable buildings
Retaining walls
Greenhouses
Sports goals

Hunting blind



Floor joists guyed
to a single PE26
in the center

Cantilevered parking canopies



PE46Guy embedded in concrete footing
to provide stabilization against tipping

Sports goal



PE26
through
bracket

To prevent serious tip-over injuries

Ground mount



PE14-STD

Tripod



PE18

Temporary mount for solar panel
to power equipment in the field

Construction trailer



PE46Guy
Orange top and cable to prevent tripping

SONAR weather station



PE18-STD sunk deep with LONG
threaded rod to surface

Tents
Canopies
Hunting blinds
Inflatable
play structures
Large shelters
Tarps
Zip lines
Solar arrays
Beach shelters
Temporary
buildings



Hangars on asphalt



Hangar's wall studs also secured directly into the ground with 10" arrowhead anchors



PE18s hold the ground framing



Through asphalt:

- Pilot hole first – 1" for PE18/PE26
- Extra pullout strength due to asphalt's added grip plus compacted soil below

The hand-turned "little one"

- Yard
- Vacation
- Backpacking



Camping tents



Landscaping



Beach structures

- Easy in
- Easy out
- Strong
- No tools



Dog tie-outs



RV awnings



Event tents



Tie-off cable to your structure

Yard decorations

RV/camper awnings

Carports

Shopping cart corrals

Erosion mats

Towers

Planters

Kites

Utility poles



Fabric building



PE46Guy cabled to the ribs

Utility pole



PE46Guy linked to Quickvise on guying cable



Sheds

Yurts

Awnings

Lifeguard stations

Canopies

Outdoor sculptures

Antennas

Playground equipment



Weather tower



PE26 for the base plate

Quick setup to measure wind speed in approaching Hurricane Ivan



PE26 for the guying cables



Cable clamps for guy-wire's loop around PE26

Planters



PE14-STD

- Double duty:**
- Hold in place
 - Prevent theft

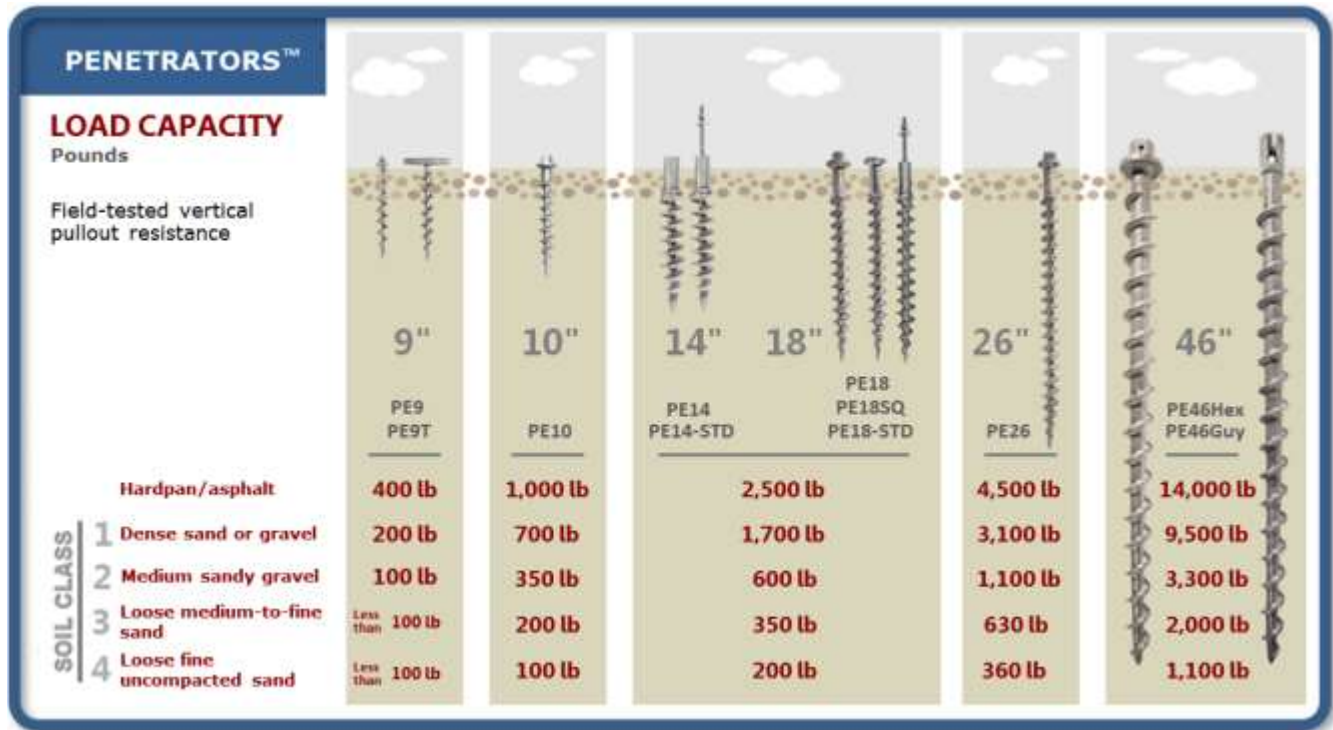


**YOU HAVE IT
WE HOLD IT™**



STRENGTH

PULLOUT resistance



BEYOND THE CATALOG ...



CUSTOM WORK

- Flash cutting – *Fused cable ends, custom length*
- Cable assemblies
- Brackets
- Full machine shop – *From CNC to welding*
- Prototypes
- Custom packaging
- Heat-seal bagging
- Bar coding

Let us help with your designs and ideas

